

date of provisional application 60/028,711 (Paper 13, page 2). The Examiner has stated that the amino acid sequence of DR3 (SEQ ID NO: 4 of the '402 patent) has 100 percent identity to SEQ ID NO: 2 of the instant application (AIR polypeptide), and that the amino acid sequence of DR3-V1(SEQ ID NO: 2 of the '402 patent) has 97.6 percent identity to SEQ ID NO: 2 of the instant application (Paper 13, page 3).

Based on the earliest effective date of the '402 patent as a reference of March 12, 1996, the Examiner has stated that claims 1-3, 6, 7, 10, 11, 13, 14, 16 and 22-26 are anticipated under 35 U.S.C. § 102 (e) by the '402 patent to Yu et al. Applicants traverse this rejection for the following reasons.

Applicants submit herein a Declaration under 37 C.F.R §1.131 to establish that the subject matter of the pending claims was invented in the United States before March 12, 1996. In this Declaration the inventors Dr. Raymond Goodwin and Dr. Mariapia Degli-Esposti declare that they isolated a cDNA encoding the full-length AIR polypeptide (SEQ ID NO: 2 of the present application) before March 12, 1996. This Declaration is supported by Exhibits A and B attached herein.

As described in the instant application, (for example, on pages 18 and 19 of the specification), an analysis of clones derived from a human peripheral blood T cell (hu PBT) library led to the isolation of a full-length cDNA transcript encoding the AIR polypeptide (SEQ ID NO: 2). Page 1 of Exhibit A is a page from a laboratory notebook showing DNA prepared from seven colonies of clone 18.1. Clone 18.1 is the full-length cDNA referred to in the present application, on page 2, lines 31 to 34, and page 19, lines 8 through 18. The upper gel on page 1 shows PCR products generated using oligonucleotide primers showing that all seven colonies of clone 18.1 have inserts. Oligonucleotide primers 18999 and 19000 identified on page 1 of Exhibit A were synthesized based on EST sequences identified in the NCBI EST database as having some homology to human Tumor Necrosis Factor receptor type I, as described on page 18 of the instant patent application. The lower gel on page 1 of Exhibit A shows DNA from clone 18.1 after digestion with EcoRI restriction enzyme.



Page 2 of Exhibit A is a page of a laboratory notebook describing the preparation of DNA from four hu PBT clones 2.1, 17.1, 17.2, and 18.1 for sequencing. Page 3 of Exhibit A shows a picture of a gel of the DNA from clones 2.1, 17.1, 17.2 and 18.1 which was submitted for sequencing. These clones are the clones referred to in the present patent application on page 19, line 8 to 12, as the additional clones isolated from the human peripheral blood T-cell library. All of the activities recorded on these notebook pages were completed in the United States prior to March 12, 1996.

Page 1 of Exhibit B is a copy of the IMMUNEX DNA Sequence Request form showing a request for sequencing DNA prepared from clones 2.1, 17.1, 17.2, and 18.1 isolated from the human PBT library. The DNA was prepared as described in the laboratory notebook pages of Exhibit A. This Request form was completed and submitted prior to March 12, 1996. Page 2 of Exhibit B shows the sequence of the 18.1 clone ("Hu TNFR-like") cDNA which was sequenced and entered into an internal Immunex database in the United States prior to March 12, 1996. The nucleotides encoding the AIR polypeptide are contained within this sequence. SEQ ID NO:1 of the present application, which include the nucleotides encoding the AIR polypeptide of SEQ ID NO:2 of the present application, is indicated by the parenthesis drawn on the sequence.

Therefore, Applicants submit that the enclosed Declaration and accompanying Exhibits A and B establish that the claimed subject matter was invented before March 12, 1996, which is the earliest effective date of U.S. Patent No: 6,153,402 to Yu. et al. as a reference under 35 U.S.C. § 102 (e). In light of the accompanying Declaration and Exhibits, Applicants submit that the rejection of the pending claims on the basis of 35 U.S.C. § 102 (e) has been overcome.

CONCLUSION

In light of the foregoing remarks and the Declaration under 37 C.F.R §1.131 with accompanying Exhibits A and B submitted herein, Applicants respectfully request that the rejection of claims 1-3, 6, 7, 10, 11, 13, 14, 16 and 22–26 under 35 U.S.C. § 102 (e) be



withdrawn, and the claims allowed. Applicants' Attorney requests that the Examiner call her at the number given below if it would assist in the prosecution of this application.

Respectfully submitted,

Christine Bellas

Registration No. 34,122

Attorney for the Applicants

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51 University Street
Seattle, WA 98101
Telephone (206) 265-6294

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on the date shown below.

Date:

-01 3003 Signed:

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USSN 08/943,776

P Declaration under 37 C.F.R. § 1.131

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Arna Mariapia A. Degli-Esposti and Raymond Goodwin

Docket No.: 2849-A

Serial No: 08/943,776

Examiner: Lazar Wesley, E.

Filed:

October 3, 1997

Group Art Unit: 1646

For:

NOVEL RECEPTOR THAT CAUSES CELL DEATH

Assistant Commissioner for Patents Washington DC 20231

DECLARATION UNDER 37 C.F.R § 1.131

Dear Sir:

We, the undersigned, hereby declare that:

- 1. We are the same Raymond Goodwin and Mariapia A. Degli-Esposti named as co-inventors on the above-identified application serial number 08/943,776. We the co-inventors isolated a cDNA encoding the full-length AIR polypeptide prior to March 12, 1996, as evidenced by Exhibits A and B enclosed herein. All actions, events and observations described in this Declaration were completed in the United States prior to March 12, 1996.
- 2. Exhibit A includes copies of pages from a laboratory notebook. Page 1 of Exhibit A shows gels of plasmid DNA prepared from seven colonies of clone 18.1 isolated from a human peripheral blood T cell (hu PBT) library. The upper gel shows PCR products generated using oligonucleotide primers 18999 and 19000 to show that all seven colonies have inserts. The lower gel shows DNA prepared from clone 18.1 colonies after digestion with EcoRI restriction enzyme. Page 2 (bottom half) of Exhibit A describes the preparation of DNA from four hu PBT clones 2.1, 17.1, 17.2, and 18.1, which was then submitted for sequencing. Page 3 of Exhibit A shows a gel of the DNA prepared from clones 2.1, 17.1, 17.2, 18.1 submitted for sequencing.

USSN 08/943,776 Declaration under 37 C.F.R. § 1.131

- 3. Exhibit B page 1 is a copy of an IMMUNEX DNA Sequence Request form showing a request for sequencing the cDNAs prepared from clones 2.1, 17.1, 17.2, 18.1 as described above. This Request Form was submitted prior to March 12, 1996. Exhibit B page 2 shows the sequence of the 18.1 clone ("Hu TNFR-like") cDNA which was sequenced and entered into an internal Immunex database prior to March 12, 1996. The nucleotides identical to SEQ ID NO: 1 of the present application, which are the nucleotides encoding the AIR polypeptide (SEQ ID NO:2), are contained within this sequence, and are indicated by the parenthesis drawn on the sequence.
- 4. Clones 2.1, 17.1, 17.2, and 18.1 referred to in paragraphs 2 and 3 above are the clones described on page 19, lines 8 through 11 of the present application. The sequence of the insert in clone 18.1 contains the cDNA encoding the AIR polypeptide (SEQ ID NO: 2) as described in the present application on page 2, lines 32 to 37, page 19, lines 15 to 18, and as shown in SEQ ID NO: 1. The portion of this sequence identical to SEQ ID NO: 1 is contained within the parenthesis indicated on this sequence.
- 5. Exhibits A and B are sufficient to show that cDNA clone 18.1 encoding the AIR polypeptide of SEQ ID NO: 2 had been isolated before March 12, 1996. The work recorded in the laboratory notebook pages in Exhibit A and the sequencing work shown in Exhibit B were completed in the United States prior to March 12, 1996.
- 6. We further declare that all statements made herein of our own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like

USSN 08/943,776 Declaration under 37 C.F.R. § 1.131

so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1/21/03

Date

Raymond Goodwin

15 January 2003

Mariapia A. Degli-Esposti

Mariapia A. Degli-Esposti

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on the date shown below.

Date: AMURY 31, 3003 Signed: Kathleen F. Prindle

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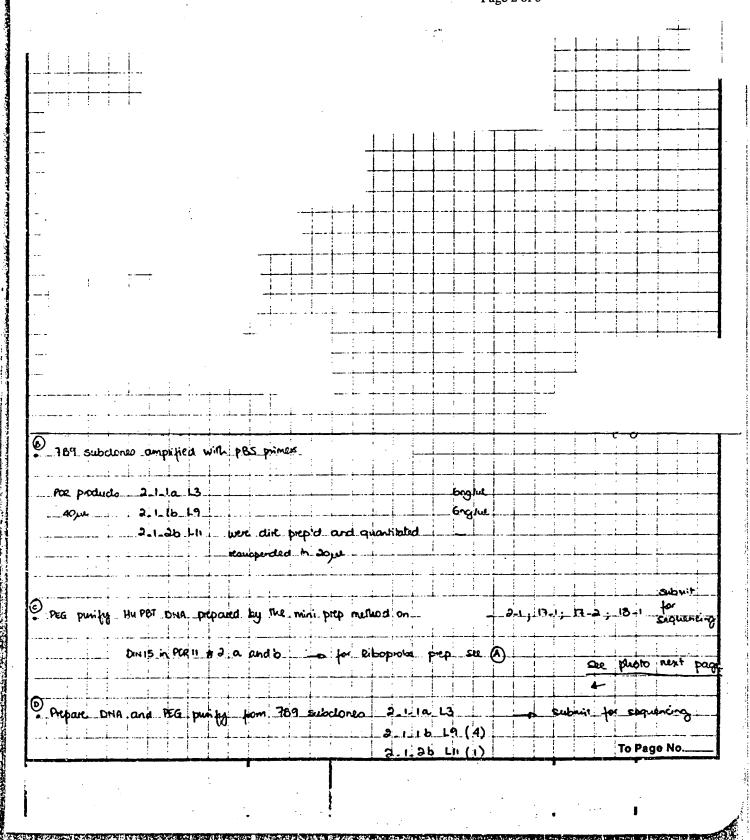
Project N. Declaration Under 37 C.R.F. 1.131

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Book N. Exhibit A. Page 1 of 3

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Declaration Under 37 C.R.F. 1.131
Exhibit A
Page 2 of 3



USSN 08/943,776 Declaration Under 37 C.R.F. 1.131 Exhibit A Page 3 of 3

Total 13 - 1 - 102 (1)

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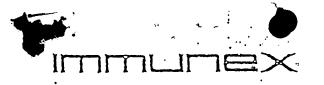
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USSN 08/943,776

Sequencer: J. Bertles

Declaration Under 37 C.R.F. 1.131 Exhibit B

Page 1 of 2

DNA SEQUENCE REQUEST FORM

	·
RESEARCHER:	attach photo here
···· · · · · · · · · · · · · · · · · ·	Plasmia DNA: lul ea sample also lul 1:5 dil. if > lmg/ul
PROJECT NAME: EST (to charge time to)	w. 200ng Lambda-H3 1% agarose / TAE gel
NAME OF CLONE: 2.1, 18.1, 17.1, 17.2	1.5 /0 4541030 / 17125 601
(Include VAX/GCG file name or attach seq)	ethidium stain after running
PREP. METHOD: (ImmunOprep, Maxi, Qiagen, Ma If OTHER, please specify: Resin	agic, Wizard, PCR, Other)
Has this preparation been PEGed? YES NO	
Has it, or a related molecule, been sequenced	at IMMUNEX previously? Ye
SEQ REQ# SEQUENCER HUT	NFR like Est)
COMMENTS: (Pertinent Information, amount of oligos, PCR amplification primers, ins	sequence needed, available sert size etc.) kb kb
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2.1,18.1 - # 195	85
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17.1 17.2 # 19	588,19575
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HuTNFR-like Length: 2696 TCCAAATTA



USSN 08/943,776 Declaration Under 37 C.R.F. 1.131 Exhibit B

Page 2 of 2

1	TACGCCAAGC	TCGAAATTAA	CCCTCACTAA	AGGGAACAAA	AGCTGGAGCT
51		GGCGGCCGCT			
101		TTTTTTTTTT			
151		ACGTGAGAGG			
201		AATTAAAAAC			
251		TTTAATAAAC			
301		TGAAATATGT			
351		TTTCCATGGT			
401		TTCATTCAGT			
451		CACTGAGAAG			
501		ACTGCAGACA			
551		CCGCTCCGCG			
601		CACCCACTCT			CGCAGACACC
651		GAGCTGGGTA			
701		TGAAATTCCA			
751		GTCATGATGG			
801		TGCTGGGCCA			
851		CTGTCCTCGC			
901		GGCCGTGACG			
951		GGCTGCTCTG			
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1251		CCCTGCGGCA			
1301		CTGGGAGAAC			
1351		AGCAGGCCTC			
1401		CGCTGTGGCT			
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1501		TGCACCGCCA			
1551		ACCTGCCTGC			
1601		CACGAGCACC			
1651		GGAGGCAGAT			
1701		CTCCTGCTTG			
1751		CAAGCCCCTG			
1801		CACCGGCCAC			
1851		CCTCCTGACA			
1901		CTGGACCCCT			
1951		CATGGTCCTG			
2001		CCCACACTCT			
2051		GCCGGGCCCG			
2101		GGAAGGAGTT			
2151		GTGGAGGTGG			
2201		GCGCTGGCGC			
2251		TGGAGCGCAT			
2301		CAGCGCGGCC			
2351		CCCTTGCAGA			
2401		TCACTTATTA			
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